Work Orde Thursday, April				*100	142*					· 		Page 1
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Work Order ID 100142 *100142* Thursday, April 18, 2013 10:35:03 AM D3997-35 Item ID: Accept *N900040100* Setup Start **Revision ID:** Item Name: Placard **Start Date:** *10* 4/18/2013 **Start Qty: 10.00 Cust Item ID:** Required Date: 4/25/2013 Req'd Qty: 10.00 *10* **Customer:** Reference: Run Process Plan: **Approvals:** Date: **Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject **Work Center ID** Description Code **Run Hours** Qty Qty Number Stamp 130 Identify as per dwg & Stock Location: 0.00 *130*

140

QC21- Final Inspection - Work Order Release

0.00

0.00

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Quality Control

Packaging

Packaging

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0.00

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Page 2

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Picklist Print

Thursday, April 18, 2013 10:35:03 AM

Work Order ID:

100142

Parent Item:

D3997-35

Parent Item Name:

Placard

Start Date: 4/18/2013

Required Date: 4/25/2013

Page 1

Start Qty: 10.00

Required Qty: 10.00

Comments:

1PP rev A 10.01.13 new issue Prelim EC verified by:DD

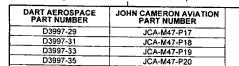
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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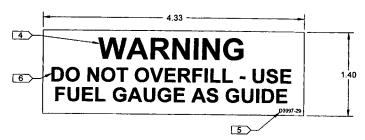
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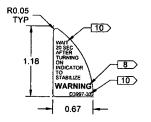
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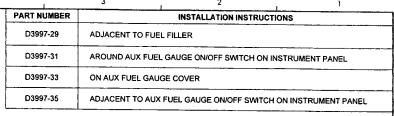


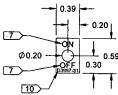
D3997-29 PLACARD



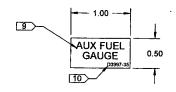
D3997-33 PLACARD

NOTES:
1) MATERIAL: 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031
2) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
3) UNITS: INCHES UNLESS OTHERWISE NOTED
4) 36 PT BOLD FONT, RED TEXT ON WHITE BACKGROUND
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6) 24 PT BOLD FONT, BLACK TEXT ON WHITE BACKGROUND
7) 10 PT FONT, WHITE TEXT ON BLACK BACKGROUND
8) 9 PT BOLD FONT, WHITE TEXT ON BLACK BACKGROUND
10) 6 PT FONT, WHITE TEXT ON BLACK BACKGROUND
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D3997-31 PLACARD



D3997-35 PLACARD



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Out of Calibration

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Turning Sequence

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Torque Waves in Extrusion

Drawing

Finish Folio

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VV	e hereby certify that:			
1.	The above the listed items were manufactured,	repaired and/or in	spected in	
	accordance with applicable drawings and/or spe	ecifications;		
2.	All work was accomplished in accordance with t	he Dart Aerospac	e	
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3.	Results of all inspections, chemical or physical t	ests, as well as o	ther evidence,	
	which shows the acceptability of raw materials, p	arts and/or asser	nbly	
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Studio de Lettrage 210 Main Street W Hawkesbury, Ontario K6A 2H6

INVOICE

Invoice No.:

19942

Date:

04/25/2013

Ship Date:

Page:

Re: Order No.

WO9730

Sold to:

Dart Aerospace Ltd

1270 Aberdeen Hawkesbury, Ontario K6A 1K7

Ship to:

Dart Aerospace Ltd

Hawkesbury, Ontario

Business No.: 82500 7651 RT0001

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Studio de Lettrage	HST: #825007651F	₹70001				
Shipped By: Comment: Sold By:	Tracking N				F Total Amount	678.00

3M

Product & Instruction Bulletin 8522

Release I, Effective September 2008 See Bulletin Change Summary and end of Bulletin This Bulletin now includes Instruction Bulletin 4.23

ScotchcalTM Changeable Opaque Imaging Media

8522

Product Description

Recommended Types of Graphics and End Uses For Thermal Inkjet Printing

This durable, 7 mil, opaque, changeable film is optimized for use with selected thermal inkjet printers and inks. Ink dries quickly on the film. When overlaminated, it is warranted for medium term, outdoor weatherable graphics, and long term indoor graphics.

When constructed and used as described in this Bulletin, these types of graphics and end uses may be warranted by the $3M^m$ MCS m Warranty. Please read the entire Bulletin for details.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and buses
 - Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - Education and presentation graphics
 - Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs or recommend other products.

Unsuitable End Uses for This Product

- Not for electronically cut individual letters and numbers
- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.
- Graphics made for automotive Original Equipment Manufacturers (OEM); contact 3M Automotive Division at 1-800-328-1684 for alternatives.

About Water-Based Inkjet Technology

Standard inkjet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication, Shelf Life and Storage sections in this Bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products

3M Graphic Materials

For complete details about graphic construction options, recommended uses and durability, refer to the Product Bulletin for the base film or substrate (media) you are using. See **3M Related Literature** at the end of this Bulletin.

This Bulletin provides details about the base film and construction options and warranty. Additional specific information about compatible products can be found in the Product and Instruction Bulletins listed in **3M Related Literature** at the end of this bulletin.

3M Graphic Materials

For complete details about graphic construction options, recommended uses and durability, refer to the Product Bulletin for the base film or substrate (media) you are using. See **3M Related Literature** at the end of this Bulletin.

Film

3M[™] Scotchcal[™] Opaque Imaging Media 8522

Overlaminate

- 3M™ Scotchcal™ Luster Overlaminate 8519
- 3M™ Scotchcal™ Matte Overlaminate 8520

Printers and Inks

HP Designjet Printers	HP Inks	
 2500CP and 2000CP 2800CP and 3800CP 3500CP and 3000CP HP Designjet 5000 and 5500 	 Designjet CP Ink System UV (pigment-based) Designjet CP Inkjet System (imaging ink) 	
• Z6100	HP 91 Vivera Ink System	

Epson Printers	Epson Inks		
Stylus Pro 9500	Archival Inks		
 Stylus Pro 10000 printer 			
 Stylus Pro 10600 printer 			

Characteristics

These are typical values for unprocessed product; processing may change the values. Contact your 3M representative for a custom specification.

Characteristic	Description		
Media	7 mil, white, opaque graphic film		
Liner	Low-slippage, lay flat paper		
Adhesive	Changeable, pressure sensitive		
Thickness	Media with adhesive: 7.5 to 8 mil (nominal)		
Warranted application substrates	See next page.		
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical . (± 10°) applications (no corrugations)		
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)		
Removable	For up to one year; see Warranty Information		

Characteristic	Description
Warranted application substrates	Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.
	Alodine (anodized aluminum)
·	Automotive panels (automotive painted steel)
	Fruehauf (painted aluminum)
	FRP (fiberglass reinforced plywood)
	• Glass
	Imron® (polyurethane-painted metal panel)
	Acrylic
	Sintra ™ board
	Note: Use on any other substrate is strictly on a graphics manufacturer and customer test and approve basis. Test for both adhesion and removal characteristics. The plasticizer in some banner materials may migrate. This may cause the edge of the graphic to peel or lift off of the banner. For optimum performance, follow the guidelines in the section, Creating A Laminated Overlap, on page 4.

Warranty Information

The warranty given in the Product Bulletin that is current at the time you purchased the film is the one that 3M will honor. The warranties in the following table(s), given in years, are for finished graphics exposed in a vertical exposure in the United States except the Desert Southwest. See the warranty sections following this table for additional information.

3M[™] MCS[™] Warranty Durability for Finished Graphics

Construction (film and overlaminate on	HP Printers & Inks		Epson Printers & Inks		Removal
warranted substrate	Outdoor	Indoor	Outdoor	Indoor	
8522/8519	3 years	5 years	2 years	5 years	1 year without
8522/8520				,	chemical strippers or tools

Warranty and Limited Remedy

The following is made in lieu of all other express or implied warranties, including any implied warranty of **merchantability** or fitness for a particular purpose or implied warranty arising out of a course of dealing, custom or usage of trade: all 3M products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.

See the Graphics Market Center Warranty Brochure, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.

Graphic Construction Options

Opaque Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source



Overlaminate 8519, 8520 Adhesive on bottom

Imaging Media 8522 Image on top; adhesive on bottom

Opaque Substrate

Fabrication

Different combinations of shop temperature and humidity can affect the handling of the media, the protective finish and the printed graphic. For optimum performance, use the *middle* of each of these ranges whenever possible.

Shop Temperature

Acceptable: 60° to 95°F (15° to 35°C) Optimum: 65° to 73°F (18° to 23°C)

Shop Humidity

Acceptable: 20% to 80% Optimum: 45% to 60%

Condition the Media Before Use

These steps are especially important if you are operating outside the conditions recommended under Fabrication, above.

- Leave the media in its original packaging until you are ready to condition and use it.
- The day before you need it, remove the media from the box and remove the plastic.
- Condition the media for 24 hours in the same environment as the printer.

Printer Settings for Optimum Quality

Refer to your Hewlett Packard printer manual for detailed operating instructions.

The quality of a printed image depends on a combination of factors: correct media selection, printing software and raster imaging processor (RIP), shop conditions, etc.

The printers qualified to use this media have print mode options that are programmed specifically for these media. Current charts that show the various modes and printing dpi, and the quality results you can expect are available at www.hp.com under the website's support section. We recommend that you print the same image at all of these settings to determine acceptable print and productivity results.

The highest quality settings are usually desirable for backlit applications.

The correct media selection makes most other necessary adjustments to the printer.

- For the HP DesignJet CP 2000 or 3000 series printers, select the Opaque Vinyl UV setting.
- For the HP Designjet 5000 series printers, select the 3M Changeable UV setting or the HP Durable Gloss UV or HP Colorfast Vinyl setting.
- For the Z series printers, refer to HP's website or printer manuals.

Note: The HP printer settings lay down less ink per pass, which results in better ink absorption and quicker drying times.

- For the HP DesignJet CP 2000 or 3000 series printers, select the Opaque Vinyl UV setting.
- For the HP Designjet 5000 series printers, select the 3M Changeable UV setting or the HP Durable Gloss UV or HP Colorfast Vinyl setting.
- For the Z series printers, refer to HP's website or printer manuals.

Note: The HP printer settings lay down less ink per pass, which results in better ink absorption and quicker drying times.

Drying Guidelines

Usually, the media can be laminated within 10 minutes after printing. However, especially in high humidity conditions, we recommend waiting 15 to 30 minutes before laminating.

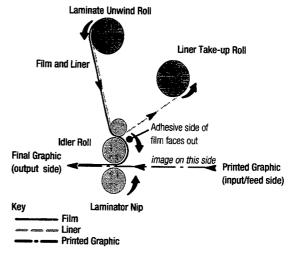
Use care when handling graphics that have not been laminated to avoid scratching and abrasion.

Graphics made with this media and ink combination typically may be wound directly on a take-up roll after printing.

Whether or not you want a warranted graphic, an overlaminate is recommended to enhance durability, especially in outdoor applications.

Overlaminate

FIGURE 1
Typical Laminator Thread-up



Creating a Laminated Overlap

Creating a laminated overlap helps ensure that the graphic does not peel or lift away from certain banner materials that may be subject to plasticizer migration. This method may also be used for flat, rigid or flexible sign applications.

- 1. Print the graphic as usual.
- 2. On all sides of the graphic, score *the film only* to the correct, final graphic dimension without cutting through the liner.

Weed away the excess film, leaving the bare liner exposed around the graphic. See FIGURE 2.

FIGURE 2 Trim and Weed Film Margin Only







Weed Margin

3. Laminate the graphic as usual (see page 5), making sure that at least one inch of the bare liner is covered by the laminate. See FIGURE 3.